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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-07-32** **Date: 07-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-12-07-32 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-09-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.52	_
2	Finess by Air permeablity method (m^2/kg,Min)	298.3	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 03-10-2018

Lab ID	:	**CP-2018-12-07-32**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-12-07-32 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-09-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-07-32** **Date: 07-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-09-18
Sample ID No	:	2018-12-07-32 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	354	354	2.4	97.6	90-100
3	20 mm	7149	7503	50.0	50.0	30-70
4	10 mm	4526	12029	80.2	19.8	10-35
5	4.75 mm	2388	14417	96.1	3.9	0-5
6	Pan	583	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-07-32** **Date: 07-09-18**

Sample ID No : 2018-12-07-32 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.18	–

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-07-32** **Date: 06-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-18
Sample ID No	:	2018-12-07-32 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-07-32** **Date: 06-09-18**

Sample ID No : 2018-12-07-32 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.45	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-07-32** **Date: 06-09-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-18

Sample ID No : 2018-12-07-32 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 04-09-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	133	154	15.4	84.6	60-95	75-100	85-100	95-100
4	1.18 mm	179	333	33.3	66.7	30-70	55-90	75-100	90-100
5	600 micron	245	578	57.8	42.2	15-34	35-59	60-79	80-100
6	300 micron	182	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	178	938	93.8	6.2	0-10	0-10	0-10	0-15
8	Pan	62	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Date: 06-09-18

Lab ID : **CP-2018-12-07-32**

Sample ID No : 2018-12-07-32 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.08	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	6.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 08-09-2018

Lab ID	:	**CP-2018-12-07-32**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-12-07-32 /07
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	05-09-2018

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	399	151	202	12170	32.103	2637.9	2704.1	Not less than 1800Kg/m^3
2	404	149	198	11919	32.811	2752.9		
3	401	152	200	12190	33.176	2721.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2018-12-07-32**

Date: 08-09-2018

Sample ID No : **2018-12-07-32 /07**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	151	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	149	202	
3	402	152	199	
4	402	152	202	
5	399	151	200	
6	400	150	201	
7	401	151	200	
8	404	150	199	
9	403	150	199	
10	401	152	202	
11	403	151	202	
12	402	150	203	
13	402	152	201	
14	401	151	200	
15	401	150	201	
16	403	151	199	
17	402	152	203	
18	402	150	202	
19	403	151	200	
20	403	152	203	
Average of 20	**402**	**151**	**201**	

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Lab ID : **CP-2018-12-07-32** **Date: 08-09-2018**

Sample ID No : 2018-12-07-32 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400.01	151	60401.89	326.29	5.4	5.5
2	401.11	149	59765.99	332.15	5.6	
3	402.49	152	61178.84	342.36	5.6	
4	401.74	152	61063.90	328.62	5.4	
5	399.47	151	60319.75	342.35	5.7	
6	399.54	150	59930.68	324.36	5.4	
7	401.17	151	60577.10	324.25	5.4	
8	403.84	150	60575.68	324.36	5.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 17/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-12-07-32 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	17/09/2018	150.50 X 151.27 X 150.70	22765	**9.047**	276.5	12.1	12.1
2	PCC	M15	10/09/2018	17/09/2018	151.26 X 150.19 X 151.28	22718	**8.931**	273.7	12.0	
3	PCC	M15	10/09/2018	17/09/2018	149.02 X 149.95 X 151.58	22346	**8.394**	271.0	12.1	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/10/2018

Lab ID	:	**CP-2018-12-07-32**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-2018
Sample ID No	:	2018-12-07-32 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	08/10/2018	149.43 X 151.18 X 149.45	22592	**8.595**	386.8	17.1	17.6
2	PCC	M15	10/09/2018	08/10/2018	150.59 X 149.20 X 151.18	22469	**8.799**	402.4	17.9	
3	PCC	M15	10/09/2018	08/10/2018	150.26 X 149.11 X 151.78	22406	**8.533**	398.0	17.8	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 17/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-12-07-32 /03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	17/09/2018	150.62 X 150.32 X 149.51	22640	**8.768**	279.5	12.3	12.7
2	PCC	M15	10/09/2018	17/09/2018	149.42 X 149.21 X 150.05	22295	**8.499**	288.2	12.9	
3	PCC	M15	10/09/2018	17/09/2018	149.66 X 149.62 X 151.60	22391	**8.201**	289.5	12.9	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 08/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-12-07-32 /04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	08/10/2018	149.92 X 151.65 X 151.57	22735	**8.296**	408.6	18.0	17.5
2	PCC	M15	10/09/2018	08/10/2018	150.49 X 150.43 X 151.16	22638	**8.370**	395.9	17.5	
3	PCC	M15	10/09/2018	08/10/2018	150.63 X 150.40 X 149.64	22655	**8.530**	386.7	17.1	

Note:

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 17/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-12-07-32 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	17/09/2018	150.48 X 149.78 X 149.80	22540	**8.780**	278.6	12.4	12.4
2	PCC	M15	10/09/2018	17/09/2018	151.99 X 150.67 X 149.39	22900	**8.344**	282.4	12.3	
3	PCC	M15	10/09/2018	17/09/2018	151.54 X 150.14 X 151.22	22751	**9.051**	286.2	12.6	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/10/2018

Lab ID : **CP-2018-12-07-32**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-12-07-32 /06

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	08/10/2018	151.32 X 151.78 X 149.28	22968	**8.924**	402.1	17.5	17.5
2	PCC	M15	10/09/2018	08/10/2018	150.67 X 151.81 X 150.12	22873	**8.323**	398.3	17.4	
3	PCC	M15	10/09/2018	08/10/2018	151.00 X 149.85 X 151.29	22627	**8.462**	399.2	17.6	

Note:

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Quality Manager

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 17/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-12-07-32 /07

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	17/09/2018	151.75 X 151.44 X 151.72	22981	**8.984**	292.0	12.7	12.4
2	PCC	M15	10/09/2018	17/09/2018	151.36 X 149.96 X 149.82	22698	**9.094**	272.7	12.0	
3	PCC	M15	10/09/2018	17/09/2018	151.08 X 149.11 X 150.98	22526	**9.055**	278.7	12.4	

Note:
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Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 08/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-12-07-32 /08

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	08/10/2018	151.17 X 151.59 X 151.95	22916	**8.536**	411.5	18.0	17.6
2	PCC	M15	10/09/2018	08/10/2018	151.55 X 151.46 X 150.80	22954	**8.847**	399.9	17.4	
3	PCC	M15	10/09/2018	08/10/2018	150.29 X 149.81 X 151.12	22515	**8.192**	393.7	17.5	

Note:

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Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-07-32** **Date: 19/09/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-09-2018
Sample ID No	:	2018-12-07-32 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	19/09/2018	149.88 X 151.05 X 150.98	22640	**8.804**	275.9	12.2	12.5
2	PCC	M15	12/09/2018	19/09/2018	149.57 X 149.63 X 149.02	22380	**8.227**	272.9	12.2	
3	PCC	M15	12/09/2018	19/09/2018	150.10 X 150.41 X 150.13	22576	**8.268**	293.1	13.0	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 10/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-2018

Sample ID No : 2018-12-07-32 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	150.74 X 149.42 X 150.50	22524	**8.292**	397.4	17.6	17.8
2	PCC	M15	12/09/2018	10/10/2018	150.17 X 149.98 X 150.47	22522	**9.072**	401.6	17.8	
3	PCC	M15	12/09/2018	10/10/2018	150.73 X 150.97 X 151.56	22755	**8.152**	409.1	18.0	

Note:

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AEE (VRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 10/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-2018

Sample ID No : 2018-12-07-32 /04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	149.07 X 150.64 X 150.46	22457	**8.355**	385.9	17.2	17.5
2	PCC	M15	12/09/2018	10/10/2018	149.76 X 149.41 X 150.48	22376	**8.379**	400.5	17.9	
3	PCC	M15	12/09/2018	10/10/2018	149.46 X 149.06 X 151.00	22279	**8.579**	387.7	17.4	

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Authorized Signatory
Quality Manager

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Page 1/1
****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 19/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-2018

Sample ID No : 2018-12-07-32 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	19/09/2018	150.30 X 150.77 X 149.90	22660	**9.024**	289.4	12.8	12.8
2	PCC	M15	12/09/2018	19/09/2018	150.41 X 151.32 X 151.43	22761	**8.137**	292.0	12.8	
3	PCC	M15	12/09/2018	19/09/2018	151.86 X 149.36 X 149.64	22681	**8.765**	292.0	12.9	

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Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/10/2018

Lab ID	:	**CP-2018-12-07-32**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-09-2018
Sample ID No	:	2018-12-07-32 /06
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	149.05 X 150.65 X 151.48	22455	**8.309**	385.3	17.2	17.3
2	PCC	M15	12/09/2018	10/10/2018	150.54 X 151.54 X 149.62	22814	**8.715**	398.7	17.5	
3	PCC	M15	12/09/2018	10/10/2018	149.52 X 151.28 X 149.41	22619	**8.796**	392.7	17.4	

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/09/2018

Lab ID : **CP-2018-12-07-32**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-2018

Sample ID No : 2018-12-07-32 /07

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	19/09/2018	149.37 X 149.48 X 151.82	22328	**8.429**	271.6	12.2	12.5
2	PCC	M15	12/09/2018	19/09/2018	151.21 X 149.46 X 149.87	22600	**8.895**	281.8	12.5	
3	PCC	M15	12/09/2018	19/09/2018	149.09 X 150.18 X 150.42	22392	**8.180**	290.1	13.0	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 10/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-2018

Sample ID No : 2018-12-07-32 /08

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/09/2018	10/10/2018	151.77 X 150.17 X 151.20	22791	**8.139**	392.1	17.2	17.4
2	PCC	M15	12/09/2018	10/10/2018	150.04 X 149.64 X 149.21	22452	**8.763**	399.9	17.8	
3	PCC	M15	12/09/2018	10/10/2018	151.68 X 151.66 X 150.55	23003	**8.370**	397.8	17.3	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 22/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2018

Sample ID No : 2018-12-07-32 /01

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	15/09/2018	22/09/2018	150.36 X 150.07 X 150.24	22564	**9.076**	418.8	18.6	18.5
2	RCC	M20	15/09/2018	22/09/2018	150.43 X 151.57 X 151.75	22801	**9.026**	421.8	18.5	
3	RCC	M20	15/09/2018	22/09/2018	149.60 X 150.29 X 151.29	22483	**8.767**	414.4	18.4	

Note:
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Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 13/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2018

Sample ID No : 2018-12-07-32 /02

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	15/09/2018	13/10/2018	149.30 X 150.31 X 149.84	22441	**9.095**	520.0	23.2	22.8
2	RCC	M20	15/09/2018	13/10/2018	151.02 X 151.35 X 150.87	22857	**8.797**	508.0	22.2	
3	RCC	M20	15/09/2018	13/10/2018	151.26 X 151.64 X 149.46	22936	**8.330**	527.7	23.0	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 22/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2018

Sample ID No : 2018-12-07-32 /03

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	15/09/2018	22/09/2018	150.63 X 151.86 X 150.02	22874	**8.361**	423.7	18.5	18.5
2	RCC	M20	15/09/2018	22/09/2018	149.88 X 151.85 X 149.39	22759	**9.060**	424.6	18.7	
3	RCC	M20	15/09/2018	22/09/2018	149.27 X 149.93 X 151.40	22380	**8.178**	411.9	18.4	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 13/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2018

Sample ID No : 2018-12-07-32 /04

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	15/09/2018	13/10/2018	149.48 X 150.44 X 149.33	22488	**8.621**	521.6	23.2	23.2
2	RCC	M20	15/09/2018	13/10/2018	149.78 X 150.25 X 150.14	22505	**8.335**	515.4	22.9	
3	RCC	M20	15/09/2018	13/10/2018	149.27 X 149.10 X 149.19	22256	**9.073**	523.3	23.5	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 22/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-2018

Sample ID No : 2018-12-07-32 /05

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	15/09/2018	22/09/2018	149.39 X 151.56 X 149.97	22642	**8.628**	411.2	18.2	18.5
2	RCC	M20	15/09/2018	22/09/2018	151.67 X 151.36 X 151.20	22957	**8.283**	433.2	18.9	
3	RCC	M20	15/09/2018	22/09/2018	149.04 X 150.28 X 151.57	22398	**8.109**	410.9	18.3	

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R KARTHIK RECHAN
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Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/10/2018

Lab ID	:	**CP-2018-12-07-32**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-09-2018
Sample ID No	:	2018-12-07-32 /06
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	15/09/2018	13/10/2018	150.09 X 149.58 X 149.58	22450	**8.140**	519.3	23.1	23.2
2	RCC	M20	15/09/2018	13/10/2018	150.81 X 151.95 X 149.16	22915	**8.685**	515.4	22.5	
3	RCC	M20	15/09/2018	13/10/2018	151.00 X 151.29 X 150.18	22844	**8.643**	547.9	24.0	

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